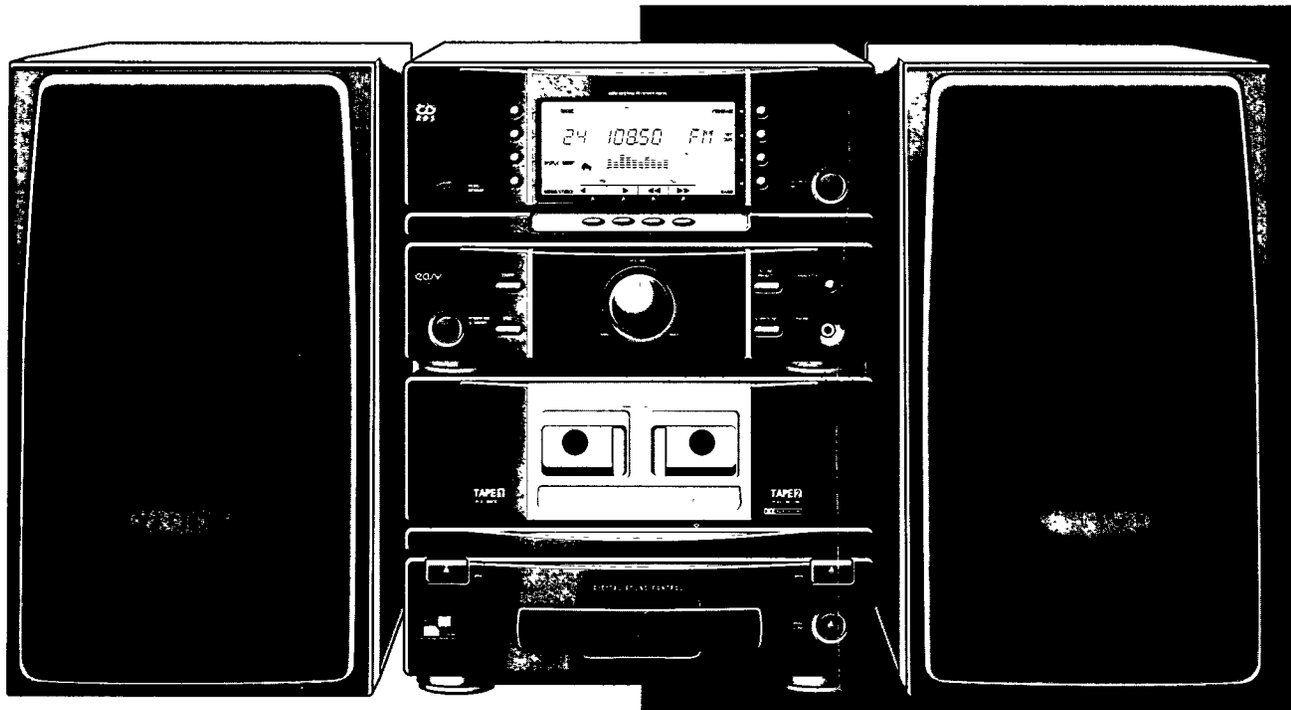
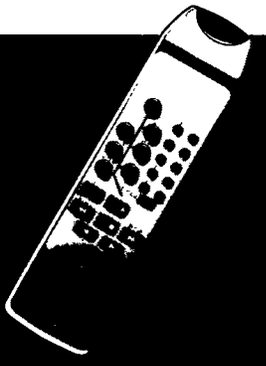
PHILIPS

FW 76 HiFi Mini System

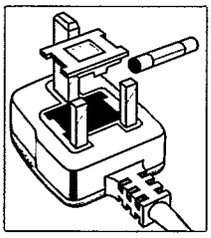




inventor of CD and DCC
DIGITAL dcc
COMPACT disc DIGITAL AUDIO
a Product from Philips

Important notes for users in the U.K.

Mains plug
This apparatus is fitted with an approved moulded 13 Amp plug. To change a fuse in this type of plug proceed as follows:



- Remove fuse cover and fuse.
- Fix new fuse which should be a BS1362 5 Amp, A.S.T.A. or BSI approved type.
- Refit the fuse cover.

If the fitted plug is not suitable for your socket outlets, it should be cut off and an appropriate plug fitted in its place.

If the mains plug contains a fuse, this should have a value of 5 Amp. If a plug without a fuse is used, the fuse at the distribution board should not be greater than 5 Amp.

Note:: The severed plug must be disposed to avoid a possible shock hazard should it be inserted into a 13 Amp socket elsewhere.

How to connect a plug
The wires in the mains lead are coloured with the following code: blue = neutral (N), brown = live (L).
As these colours may not correspond with the colour markings identifying the terminals in your plug, proceed as follows:

- Connect the blue wire to the terminal marked N or coloured black.
- Connect the brown wire to the terminal marked L or coloured red.
- Do not connect either wire to the earth terminal in the plug, marked E (or ⏚) or coloured green (or green and yellow).

Before replacing the plug cover, make certain that the cord grip is clamped over the sheath of the lead - not simply over the two wires.

Copyright in the U.K.
Recording and playback of material may require consent. See Copyright Act 1956 and The Performer's Protection Acts 1958 to 1972.

(E) España

Declaración de conformidad con normas

El que suscribe, en nombre y representación de:
Philips Singapore Pte. Ltd.

declara, bajo su propia responsabilidad, que el

equipo:	**Minicadena**
fabricado por:	**Philips Singapore Pte. Ltd.**
en:	**Far East**
marca:	**Philips**
modelo:	**FW 76**

objeto de esta declaración, cumple con la normativa siguiente: Reglamento sobre Perturbaciones Radioeléctricas, Real Decreto 138/1989, Anexo V.

Hecho en: **Singapore, 01 - 04- 1994**
Firma: Loke Yoon Cheong

Nombre: **Loke Yoon Cheong**
Cargo: **Safety & Approbation Officer**

(N) Norge

Typeskilt finnes på apparatens bagsiden.

Observer
Nettbryteren POWER er sekundert innkoplet. Den innebygde netdelen er derfor ikke frakoplet nettet så lenge apparatet er tilsluttet nettkontakten.

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CLASS 1
LASER PRODUCT

English

THANK YOU FOR SELECTING THIS PHILIPS SYSTEM

This state-of-the-art HiFi mini stereo system offers you the latest technology, high quality sound and an extreme user-friendly operation thanks to its large display which contains an advanced interactive user interface.

RECYCLING

- All redundant packaging material has been omitted. The packaging is easy separable into three mono-materials:
  - cardboard (box)
  - expandable polystyrene (buffer)
  - polyethylene (bags, protective foam sheet)
- Your set consists of materials which can be recycled if disassembled by a specialized company.
- Do not dispose of exhausted batteries with your household waste.
- Please observe the local regulations regarding the disposal of packing materials, exhausted batteries and old equipment.

GENERAL REMARKS

- Unpack all parts and remove protective material.
- Do not connect the system to the mains before checking the mains voltage and before all connections are made.

SUPPLIED ACCESSORIES

- Two loudspeaker boxes, type FB 76.
- Remote control unit.
- Two batteries, type R03, UM-4 or AAA cells, for the remote control unit.
- AC mains lead.
- Flat system connection cable.
- AM frame aerial.
- Dipole FM wire aerial.

The type plate can be found on the back of the system.

This product complies with the radio interference requirements of the European Community.

Recording is permissible insofar as copyright or other rights of third parties are not infringed.

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TECHNICAL DATA

(subject to modification)

Amplifier

- Output power: ..... 2 x 50 WRMS / 6 Ω / THD 10% at 1 kHz
- Power bandwidth: ..... 20 - 40 000 Hz
- Frequency response: ..... 40 - 20 000 Hz
- Signal-to-noise ratio: ..... ≥ 75 dBA (IEC)
- Stereo separation: ..... ≥ 50 dB (IHF)
- Input sensitivity
  PHONO MD: ..... 2.5 mV
  AUX PLAY: ..... 250 mV
- Outputs
  AUX REC: ..... 250 mV
  Loudspeakers: ..... 6 Ω
  Headphones: ..... 3.5 mm socket, 8 Ω - 1 000 Ω (5 Vemk - 120 Ω)

Tuner

- FM wave range: ..... 87,5 - 108 MHz
- MW wave range: ..... 522 - 1611 kHz
- LW wave range: ..... 153 - 279 kHz
- Sensitivity at 75 Ω
  mono, 26 dB signal-to-noise ratio: ..... 1.2 µV
  stereo, 46 dB signal-to-noise ratio: ..... 45 µV
- Selectivity: ..... 30 dB
- Total harmonic distortion: ..... ≤ 1.1%
- Frequency response: ..... 63 - 14 000 Hz (± 3 dB)
- Signal-to-noise ratio: ..... 65 dBA (mono)

CD player

- Frequency range: ..... 20 - 20 000 Hz
- Signal-to-noise ratio: ..... 90 dB
- Dynamic range: ..... 90 dB
- Channel separation: ..... 80 dB
- Total harmonic distortion: ..... 80 dB
- Conversion: ..... Bitstream

Tape decks

- Frequency range
  CrO_2 tape (type II): ..... 40 - 16 000 Hz (± 5 dB)
  Normal tape (type I): ..... 40 - 16 000 Hz (± 5 dB)
- Signal-to-noise ratio (without Dolby NR)
  CrO_2 tape (type II): ..... 56 dBA
  Normal tape (type I): ..... 55 dBA
- Wow and flutter: ..... ≤ 0,2% DIN

Speaker

- System: ..... 3-way double bass reflex
- Impedance: ..... 6 Ohms
- Bass speaker: ..... 7 inch long-stroke
- Mid/treble speaker: ..... 2 inch ferrofluid cone
- Upper treble: ..... piezo tweeter

General

- Dimensions (w x h x d):
  FR 76 receiver: ..... 260 x 176 x 250 mm
  CCD 76 CD player/Cassette deck: ..... 260 x 176 x 250 mm
  FB 76 speakers: ..... 200 x 352 x 250 mm
- Weight (without speakers): ..... approx 9 kg
  Weight including speakers: ..... approx 19 kg

3. ADDITIONAL FEATURES

DEMONSTRATION MODE

The system has a demonstration mode, showing various features offered by the system. The system is in the demonstration mode if after waking up the system the display shows continuously the scrolling message 'MAGIC - NEW MINI SYSTEM - EVOLUTIONARY DESIGN' and a few system possibilities.

To leave or enter the demonstration mode

- Switch the system to the STANDBY mode.
- Keep pressed the upper right display button until a scrolling message appears:
  TRADE ON if the demonstration mode is active;
  TRADE OFF if the demonstration mode is cancelled.

FUZZY LOGIC POWER CONTROL

The FUZZY LOGIC POWER CONTROL circuit continuously checks the temperature of the transformer. In case of a too high temperature it automatically reduces the output power in order to prevent possible damage caused by overheating.
Under normal listening conditions the FUZZY LOGIC POWER CONTROL will never have to reduce the output power.
However, if you are listening at a very high power level over a prolonged period, the transformer will heat up. This is detected by the FUZZY LOGIC POWER CONTROL which will prevent overheating by first automatically turning down the equalizer settings and after that, if still necassery, turning down step-by-step the motorized VOLUME control.
The display will show the scrolling message SELF PROTECTION ACTIVE.

This action is repeated until an output power is reached that produces an acceptable transformer temperature.
If you try to overrule this protection by turning up the volume again and again by hand, the FUZZY LOGIC POWER CONTROL will detect soon an unacceptable heat and will suddenly switch the set to the MUTE position wich decreases the volume by -20 dB. The display will show the message PROTECTIVE.

The set will stay inoperative during a cooling-off period. As soon as the transformer has reached an acceptable temperature, it becomes operative again

SWITCHABLE 'OPTIMAL' SOUND PRESET

Among the available sound presets like JAZZ, POP, CLASSIC, ROCK, VOCAL, FLAT and the personal presets PRESET 1-5 you will find a so-called OPTIMAL preset.
This OPTIMAL equalizer setting is specially tuned to the acoustics of the supplied FB 76 speakers. If you connect other speakers instead of the supplied ones, it is advised to delete the OPTIMAL setting from the sound preset menu.

Eliminating or adding the OPTIMAL sound preset

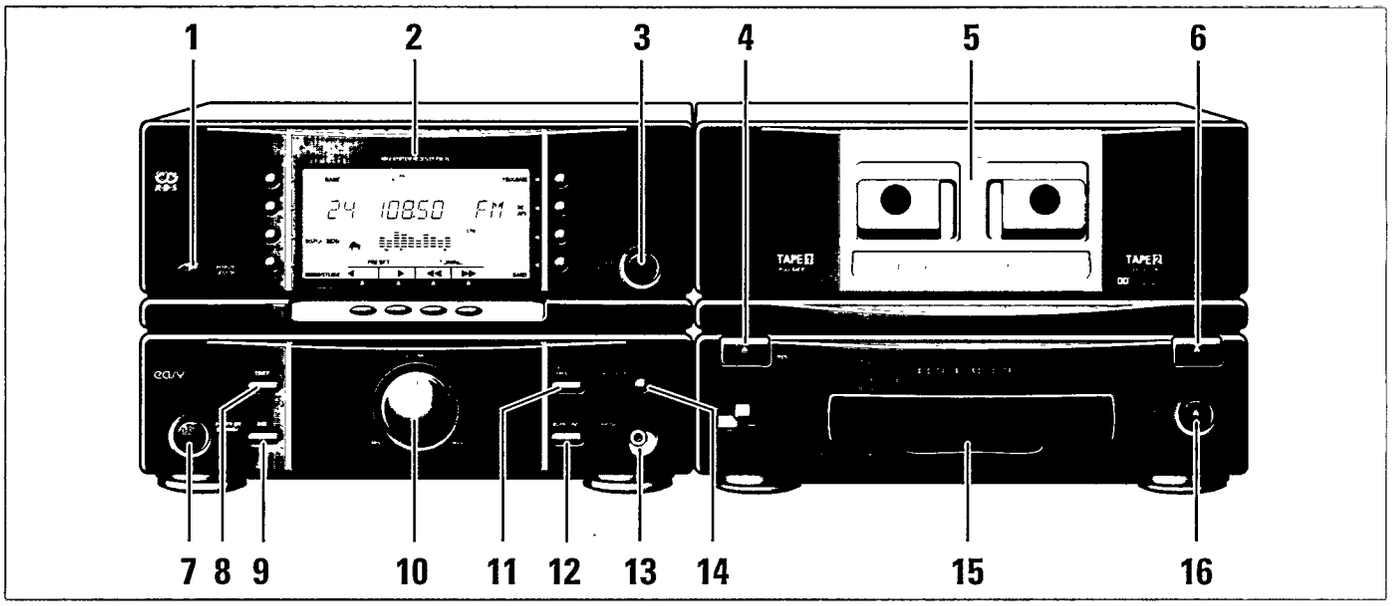
- Pull out the mains plug.
- Keep the buttons SOUND PRESETS and ANALYZER pressed while inserting the mains plug.
  If the message OPTIMAL shortly appears, the sound preset is available;
  If the message NO OPTIM shortly appears, it is eliminated.

SWITCHABLE LW WAVE BAND (not on all versions)

Some countries do not have a LW waveband. In some versions it is possible to delete the LW waveband from the BAND menu.

- Pull out the mains plug.
- **To include the LW band:** Keep the buttons BAND and TUNING ◀◀ pressed while inserting the mains plug. Then release the buttons; the display shows for 2 seconds the message LW ON
- **To delete the LW band:** Keep the buttons BAND and TUNING ▶▶ pressed while inserting the mains plug. Then release the buttons; the display shows for 2 seconds the message LW OFF

4. SYSTEM SURVEY



SYSTEM CONTROLS

1 **REMOTE SENSOR** - infrared remote control eye

2 **System display and buttons**

3 **SOURCE SELECT** - press again and again to select the sound source

4 **OPEN ▲** - for opening the deck 1 cassette holder

5 **cassette holders**

6 **OPEN ▲** - for opening the deck 2 cassette holder

7 **POWER ON/STANDBY** - for waking up the system or switching it to the standby mode

8 **TIMER** - for selecting the timer function

9 **DBB** - (on/off) Dynamic Bass Boost, for enhancing the bass tones

10 **VOLUME control with STANDBY indicator**
- for adjusting the volume
- the STANDBY indicator lights up when the system is powered and blinks when receiving remote control signals

11 **SOUND PRESETS** - for entering the selection of the equalizer sound presets. Using the display buttons ◄ and ► you can select sound presets for several types of music, see chapter SOUND CONTROLS

12 **SURROUND** - (on/off) for creating a spatial effect; use 4 speakers for maximum effect

13 **PHONES** - socket for stereo headphones

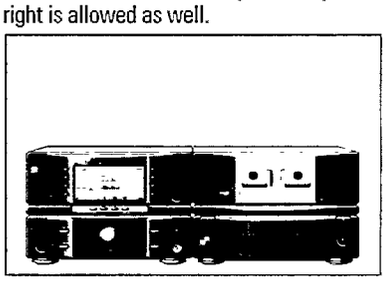
14 **ANALYZER**
- for switching the spectrum analyzer on and off;
- from the standby position, to enter the SYSTEM SET UP menu

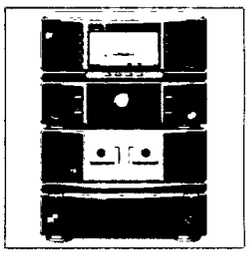
15 **CD tray**

16 **OPEN/CLOSE ▲** - for opening and closing the CD tray

POSITIONING THE SYSTEM

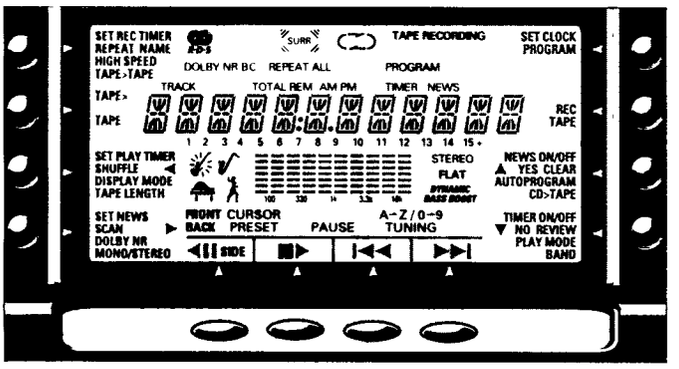
- Do not cover the system.
- Place the system on a hard surface.
- The amplifier produces heat which must be allowed to dissipate freely, so do not cover any ventilation slots and make sure that there is sufficient ventilation around the system. A minimum gap of 15 cm is necessary
- If you want to use a record player, it is recommended to position it on the right side of the system in order to minimize any interference
- The preferred order for stacking the system units is shown in the diagrams below: at the left the most preferred position; positioning as shown at the right is allowed as well.





5. SYSTEM DISPLAY

SYSTEM DISPLAY AND BUTTONS



When a sound source or the timer is selected, the available functions appear in the display next to the display buttons Using the 12 buttons around the display field, you can select the desired function.

Text area to display information and messages.

spectrum analyzer, shows the frequency distribution of the reproduced sound, or the equalizer setting for the selected sound preset.

RDS - Radio Data System, you receive a RDS radio station

Dynamic Bass Boost is switched on.

SURROUND sound is switched on.

The sound preset for JAZZ music is selected.

The sound preset for POP music is selected.

The sound preset for CLASSICAL music is selected.

The sound preset for ROCK music is selected.

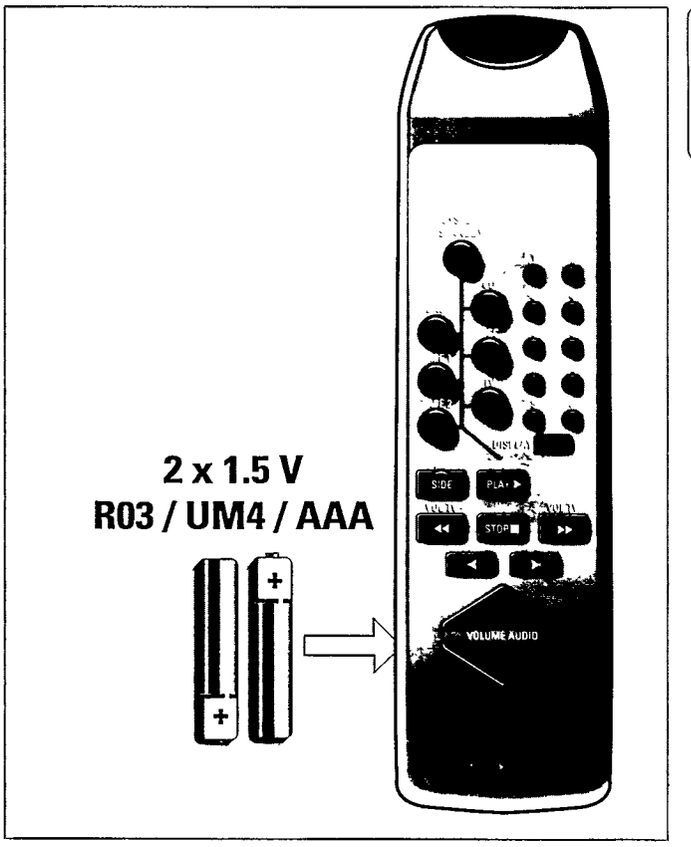
The sound preset for VOCAL music is selected.

FLAT The equalizer is inoperative.

The selected PLAY MODE mode for the cassette decks:
- continuous reverse;
- single reverse;
- no reverse.

6. REMOTE CONTROL

English



- Open the battery compartment and insert two batteries, type R03, UM-4 or AAA cells, as indicated above.
- Remove the batteries when they have run down or if they will not be used again for a long period. The lifetime of the batteries is about one year.

SYSTEM STANDBY
To switch the system to the STANDBY mode

TUNER - CD - TAPE 1 - TAPE 2 - DCC - TV
To select the sound source (and wake-up from standby)
Note: DCC and TV functions are only available when these sources are connected and selected in the SYSTEM SET-UP menu. The DCC functions are also available when selected as AUX source.

Digit button 1 - 0
TUNER: to select directly the preset radio station
CD: to select directly the required track number

DISPLAY
To switch the system display Illumination on and off

– / – – and SIDE
– / – – for TV-channel selection only: to select a 1-digit (–) or 2-digit (– –) number, e.g. – for number 3, – – for number 16.
SIDE (for TAPE 1 and 2 only) to reverse the TAPE 1 or TAPE 2 tape travel direction (FRONT/BACK.

PLAY ▶
To start playback for the selected source: CD, TAPE 1 or TAPE 2.

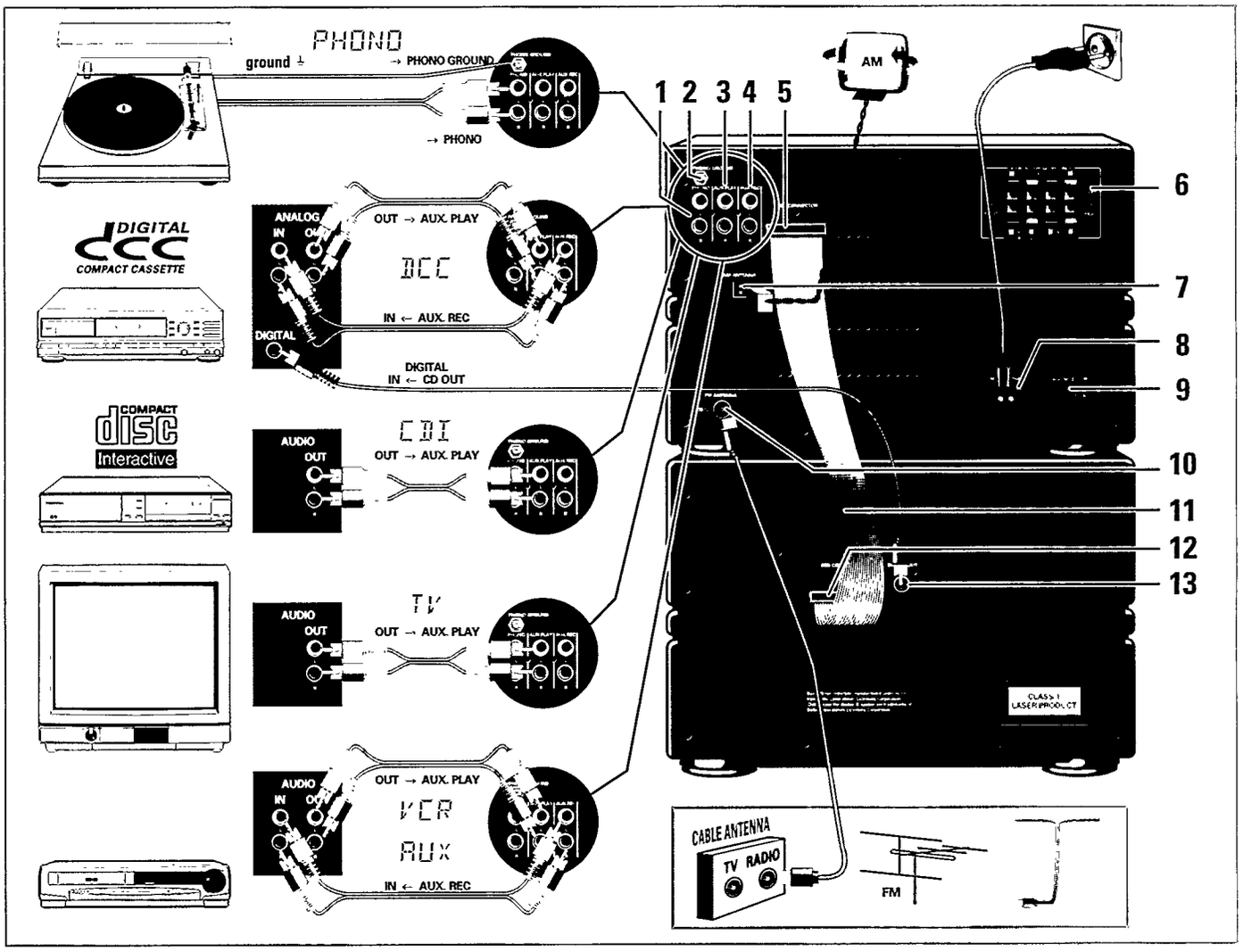
VOL TV – / + and ◀◀ / ▶▶
TV: adjusting the VOLUME down/up
System: same function as display buttons ◀◀ / ▶▶ (if visible)

STOP ■
System: same function as display button ■ (if visible)

⏮ / ⏭
System: same function as display buttons PRESET ◀ ▶ or ⏮ ⏭ (if visible)

VOLUME AUDIO
To adjust the volume (up/down).

7. CONNECTIONS



BACK PANEL

1 **PHONO** - input sockets for a record player with magneto-dynamic pick-up cartridge
2 **PHONO GROUND** - for the earth wire of a record player
3 **AUX PLAY** - analog input sockets for an external sound source, e.g. a DCC-deck or the sound channel of a TV set, video recorder etc.
4 **AUX REC** - analog output sockets for e.g. an external DCC-deck
5 **CCD connector** - for connecting the flat system connection cable
6 **SPEAKERS** - speaker terminals
7 **AM ANTENNA** - connector for the supplied AM frame aerial
8 **AC MAINS** - socket for the mains lead
9 **VOLTAGE selector** *(not on all versions)*
10 **FM ANTENNA 75 Ω** - socket for the FM aerial
11 **System connection cable** - flat cable for connecting the system units
12 **CCD connector** - for connecting the flat system connection cable
13 **DIGITAL OUT** *(not on all versions)* - digital CD output socket for connection to e.g. an external DCC-deck in order to make a ***digital*** DCC-recording from a CD

PHONES (on front panel)

You can connect stereo headphones with a 3,5 mm plug to the PHONES socket. Inserting the plug will disconnect the speakers.

SYSTEM CONNECTION CABLE

Before connecting or disconnecting, always switch the system to STANDBY

- Connect the flat system connection cable to both CCD CONNECTORS Insert the plug into the connector until it clicks firmly in place.
- You can remove the plug by pressing the left and right snaps together and pulling out the plug. Do not pull at the cable.

AERIALS

- **FM:** connect the FM ANTENNA socket to the Community or Cable Antenna System or to a roof-mounted FM aerial with an impedance of 75 ohms If none of these are available, connect the supplied wire aerial (dipole) to this socket, find a position for best reception and mount it to the wall or window in a T-shape. Keep the dipole aerial away from the system and never let it touch the flat system cable to avoid unwanted noise.
- **AM/MW/LW:** connect the plug of the supplied AM frame aerial to the AM ANTENNA socket and position the frame aerial for best reception Do not place the frame aerial too close to the units, the wires or the boxes, as this may cause unwanted noise.

PHONO

Input sockets for a record player with magneto-dynamic pick-up cartridge

- Connect the PHONO cable to the PHONO sockets, left to left ('L') and right to right ('R').
- Clamp the earth wire of the record player under the PHONO GROUND terminal.

7. CONNECTIONS

AUX PLAY/REC

AUX PLAY input sockets for amplifying or recording the signal from an external sound source, e.g. a TV, video recorder, DCC-deck etc.

- Connect the AUX PLAY input sockets to the sockets LINE OUT, AUDIO OUT, or ANALOG OUT of the other set, left to left ('L') and right to right ('R').

AUX REC output sockets for linking the system signal to external equipment, e.g. a recorder, amplifier, DCC-deck etc.

- Connect the AUX REC output sockets to the sockets AUX, LINE IN, AUDIO IN, or ANALOG IN of the other set, left to left ('L') and right to right ('R').

DIGITAL OUT (not on all versions)

For linking the digital signal from the system CD-player to e.g. a DCC-deck or other digital equipment

- Connect the DIGITAL OUT socket to the socket DIGITAL IN of the other set.

CONNECTING A DCC-DECK

When connecting a DCC-deck, always connect both the DIGITAL and the AUX REC and PLAY sockets to the DCC-deck.

- For digital DCC-recording from the CD-player, connect the DIGITAL OUT socket to the socket DIGITAL IN of the DCC recorder.
- For analog DCC-recording from the tuner or tape deck, connect the AUX REC output sockets to the ANALOG IN sockets of the DCC-deck, left to left ('L') and right to right ('R').
- For playback of the DCC-deck through the system, connect the AUX PLAY input sockets to the ANALOG OUT sockets of the DCC-deck, left to left ('L') and right to right ('R').

MAINS LEAD

- Before connecting the system to the mains, proceed as follows:
  - If the system is equipped with a VOLTAGE selector, first adjust the voltage selector to the local mains voltage.
  - If the system does not have a voltage selector, first check if the mains voltage as shown on the type plate on the back of the system corresponds to your local mains voltage. If it does not, consult your dealer or service organisation.
- After all other connections have been made, connect the mains lead to the AC MAINS socket and insert the plug of the mains lead in the wall socket.
- When connected to the mains, the system is always energised.To switch off the mains supply completely, pull the mains plug out of the wall socket.

Important!

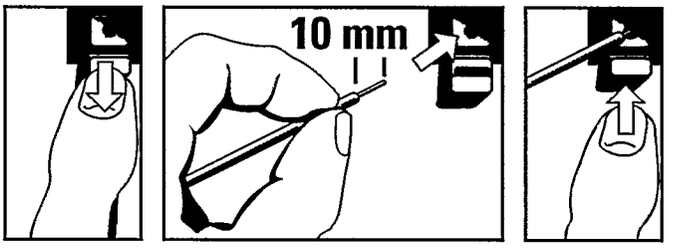
When the power supply is interrupted, e.g. by pulling the mains plug out of the wall socket, the memory for clock time settings will only be kept for about 10 minutes.

SPEAKERS

You can connect only the 2 supplied FB 76 speakers or you can create a 4-speaker system for surround sound using two extra speakers having an impedance of at least 6 Ohms, e.g. our special surround-sound speakers, type FB 305.

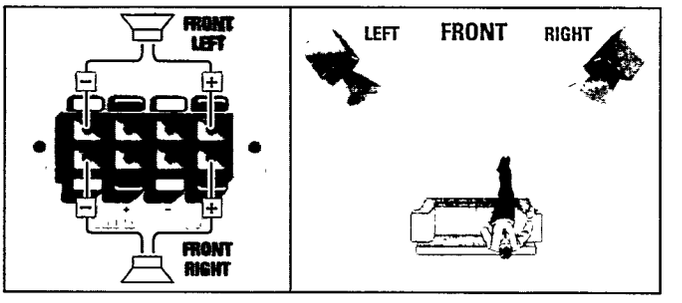
Speaker positioning

You will find the best speaker position by experimenting.
Placing the speakers on the floor will increase the bass response.
Placing the speakers behind curtains, furniture etc. will reduce the treble response and the stereo effect.
The ideal position is obtained when the 2 front speakers and the listening position build an equilateral triangle and the speakers are at ear-height.



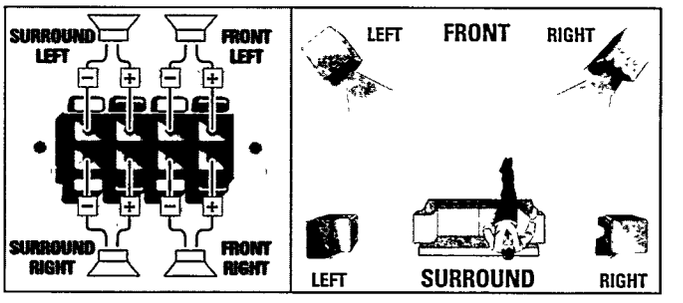
2-speaker system

- Connect the black or non-marked wires to the black terminals and the red or marked wires to the red terminals.



4-speaker system

- ***Front speakers FB 76:*** Connect the black or non-marked wires to the black FRONT terminals and the red or marked wires to the red FRONT terminals.
- ***Rear speakers, e.g. FB 305:*** Connect the black or non-marked wires to the black SURROUND terminals and the red or marked wires to the red SURROUND terminals.



English

SWITCHING THE SYSTEM ON AND OFF (Stand By)

When connected to the mains, the system is always energised. To switch off the mains supply completely, pull the mains plug out of the wall socket.

Waking up the system

- The normal way to wake up the system is by pressing the button POWER ON/STANDBY or SOURCE SELECT or a source select button on the remote control. The display illumination lights up.

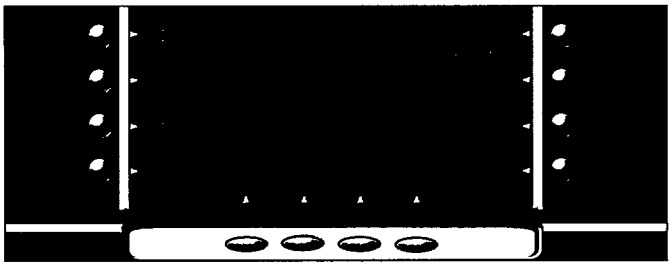
Switching the system to STANDBY

- Press POWER ON/STANDBY or press SYSTEM STANDBY on the remote control. The system will enter the standby mode (a kind of sleeping mode). The display illumination goes out and the display shows the current day and time. The red indicator on VOLUME will always stay on..

Important! When the power supply is interrupted, e.g. by pulling out the mains plug, the clock time settings will only be kept for about 10 minutes. If the clock time settings are lost, the day and time are flashing and you need to (re)adjust the day and time settings, see chapter CLOCK / TIMER.

CLOCK

When the system is in position STANDBY, the display illumination is off and the current day and time are displayed.



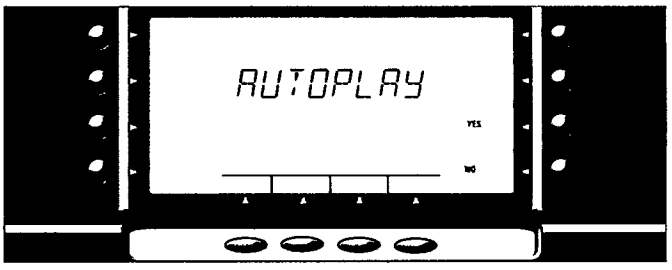
If the day and time indication is flashing, you need to (re)adjust the day and time settings, see chapter CLOCK / TIMER.
When the power supply is interrupted, e.g. by pulling out the mains plug, the clock time settings will only be kept for about 10 minutes.

SYSTEM SET-UP MENU

The system set-up menu allows you to customize your system to your specific user situation and preferences.
AUTOPLAY enables automatic start of CD playback.
The SOURCES menu allows you to choose and name the relevant sound sources connected to the PHONO and AUX. PLAY sockets. After that, only the chosen sources will appear when selecting sound sources.

Entering the SYSTEM SET-UP menu

- Set the system to the STANDBY mode.
- Press the ANALYZER button; SOURCES YES/NO appears.



AUTOPLAY
If AUTOPLAY is switched on (YES), the CD player will start automatically after inserting a CD and closing the CD tray.
If AUTOPLAY is switched off (NO), you will have to start CD playback by hand.

- If you want to switch ***on*** AUTOPLAY, press YES; if you don't, press NO. SOURCES YES/NO appears.

SOURCES

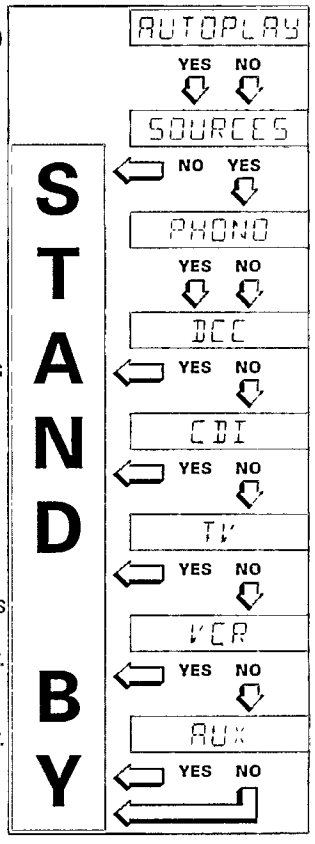
- If you ***do not*** want to select additional sources, press NO; the system returns to standby.
- If you want to select the sources, press YES; PHONO YES/NO appears.

PHONO

- If a record player (PHONO) is connected, press YES, if not, press NO; DCC YES/NO appears.

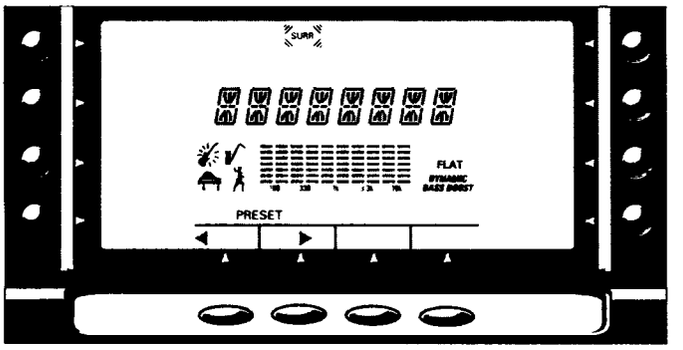
AUX PLAY socket

- If a DCC deck, a CDI player, a TV or a VCR (videorecorder) is connected, press YES as soon as the required name appears; the system returns to standby.
- If ***other equipment*** is connected to AUX PLAY, press YES as soon as AUX appears; the system returns to standby.
- If ***no*** equipment is connected to AUX.PLAY, press NO; the system returns to standby.



Note: If you press ■, the system returns to standby without changing the last step.

9. SOUND CONTROLS



DBB - DYNAMIC BASS BOOST

- To enhance the bass tones (volume-position-dependent), press DBB.

DYNAMIC BASS BOOST — The words Dynamic Bass Boost appear. This setting is saved when switching the system to STANDBY.

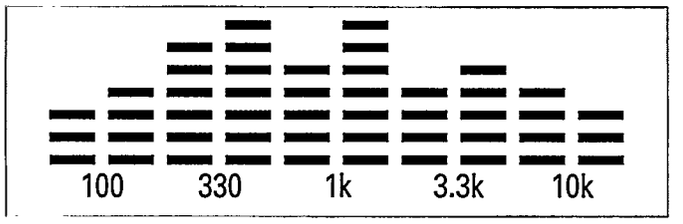
SURROUND SOUND

- To obtain a spatial sound effect (only possible with stereo signals), press SURROUND. The surround effect is optimal when using 4 speakers.

SURR — The SURROUND symbol appears. When setting the system to STANDBY, SURROUND is always switched off.

SPECTRUM ANALYZER

The graph bars in the centre of the display show the sound levels, divided in the frequency bands 100 Hz – 330 Hz – 1 kHz – 3.3 kHz – 10 kHz.

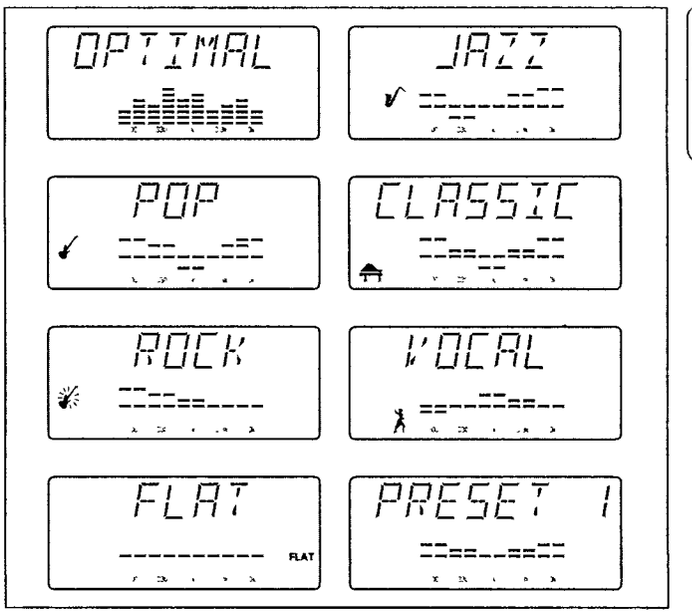


The spectrum analyzer shows continuously moving the frequency distribution of the actual sound.
By pressing the ANALYZER button, the spectrum analyzer bars are either hidden or shown.
When waking up the system, the spectrum analyzer bars are always shown.

SOUND PRESETS

A graphic equalizer enables the sound level for each frequency band (from bass tones to treble tones) to be decreased or boosted with respect to each other.
The equalizer uses the same 5 frequency bands as the spectrum analyzer.
The SOUND PRESETS consist of 7 fixed and 5 adjustable equalizer presets.
The fixed SOUND PRESETS give an optimal sound for different kinds of music, OPTIMAL, JAZZ, POP, CLASSIC, ROCK,.VOCAL and FLAT.
Beside the 7 fixed SOUND PRESETS, there are also 5 presets which can be programmed by yourself (PRESET 1 - 5), see the chapter 'Programming the personal SOUND PRESETS 1 to 5'.

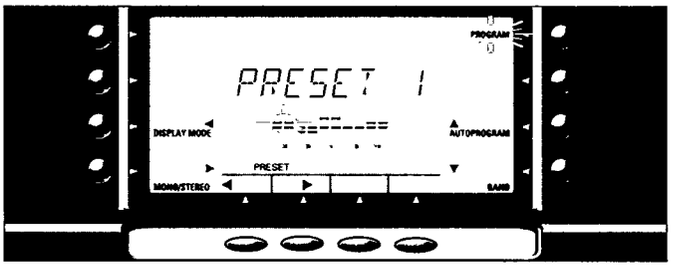
- To select an equalizer preset, press SOUND PRESETS once and select the required SOUND PRESET using the display buttons ◄ ►. To leave the SOUND PRESET mode, press ■ or press SOUND PRESETS again.
  The equalizer setting (SOUND PRESET) is shown as a stationary curved or straight line. When OPTIMAL is selected, the spectrum analyzer graph bars are moving.



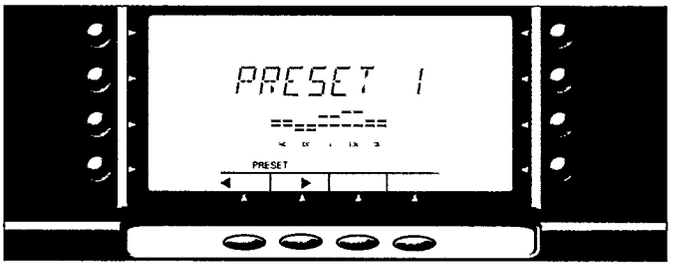
- If FLAT is selected, the equalizer is switched off (no sound adjustment).
- The (factory-set) OPTIMAL equalizer setting is specially tuned to the acoustics of the supplied FB 76 speakers. If you connect other speakers instead of the supplied ones, it is advised to delete the OPTIMAL setting from the SOUND PRESET menu, see chapter SYSTEM SET-UP.

Programming the personal SOUND PRESETS 1 to 5

- Press SOUND PRESETS to enter the equalizer mode.
- Press PROGRAM.
  PROGRAM and the left spectrum analyzer bar (100 Hz) starts flashing.



- Select PRESET 1 as described above.
- Using the buttons ◄ and ►, you can select the desired frequency bands: 100 Hz (lower bass) – 330 Hz (upper bass) – 1 kHz (mid) – 3.3 kHz (lower treble) – 10 kHz (upper treble). The bars of the selected frequency band will flash
- Using the buttons ▲ and ▼, you can increase (▲) or decrease (▼) the reproduction of the chosen frequency band.
- Adjust all frequency bands according to your personal taste.



- To store your own preset, press PROGRAM again. PRESET 1 is then stored.
- Program the PRESETS 2 - 5 e.g. for other persons or for other types of music.
- If you want to leave the programming mode without storing the last change, press the button SOUND PRESETS again.

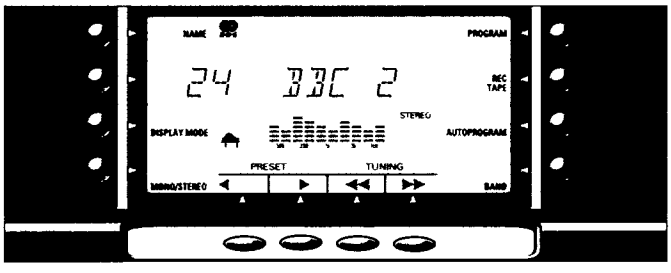
English

GENERAL OPERATION

- Select the tuner by pressing the SOURCE SELECT button several times until TUNER appears, or press the TUNER button on the remote control.
- Select a stored preset radio station using PRESET ◀ ▶.
- When a non-stored frequency is required, select the band by pressing BAND until the desired band appears and then tune to the radio station using TUNING ◀◀ or ▶▶.
  The correct procedure is described in the following sections.
- When the word STEREO appears, you are receiving a FM-stereo radio station. A disturbing noise, due to a weak FM-stereo signal, can be suppressed by pressing MONO/STEREO. The word STEREO disappears, the message MONO appears shortly and you will hear the FM radio station in mono.
- To display for a few seconds the station frequency instead of the station name, press DISPLAY MODE.
- Adjust the volume with VOLUME.
- To select an equalizer preset, press SOUND PRESETS once and select the required SOUND PRESET using the display buttons ◀ ▶. To leave the SOUND PRESET mode, press SOUND PRESET again.
- Press ANALYZER to switch the spectrum analyzer on or off.
- To obtain a spatial sound effect (only possible with stereo signals), press SURROUND. The SURROUND symbol appears.
- To enhance the bass tones (volume-position-dependent), press DBB. The word DYNAMIC BASS BOOST appears.

RDS - RADIO DATA SYSTEM

When a FM radio station is transmitting using the RDS system, some 'hidden' information is transmitted together with the normal radio signal, e.g. the name of the radio station.
This tuner is able to detect this hidden information.
If you are receiving a radio station transmitting RDS signals, the display will show the logo RDS and the station name will always appear on the display.
This name cannot be changed into another name.



TUNING

Search tuning

- Select the wave range with BAND.
- Press TUNING ◀◀ or ▶▶ for more than 0.5 seconds and release the button. The tuner will now search until a radio station of sufficient strength has been found. The display shows the tuned frequency. If the frequency has already been stored, the preset number is also displayed.
- If the radio station found is not the desired one, press TUNING ◀◀ or ▶▶ again for more than 0.5 seconds.

Manual tuning to weak radio stations

Weak radio stations are skipped during search tuning. They can be tuned to as follows:

- Keep TUNING ◀◀ or ▶▶ pressed until you approach the required frequency.
- To stop running, press the TUNING button (◀◀ or ▶▶).
- Press TUNING ◀◀ or ▶▶ for less than 0.5 seconds to change the frequency step-by-step until the right frequency has been reached or until optimum reception is obtained.

REC TAPE

- As soon as you press REC TAPE, the actual sound will be recorded on TAPE 2, provided a cassette suitable for recording is loaded.
- To stop recording, press ■.

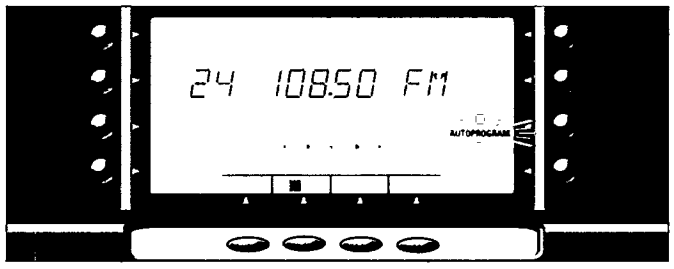
PRESET RADIO STATIONS

You can store up to 30 preferred radio stations in the memory.

Automatic programming of preset radio stations

30 radio stations can be stored automatically in the memory. If less than thirty radio stations are found on the FM band, the MW band (and if necessary the LW band) are scanned as well to fill the rest of the memory locations.
Automatic programming will clear the old preset numbers (including assigned radio station names). If less than 30 radio stations are found, the remaining preset numbers will not be changed.
If you want to maintain some old presets, e.g. preset 1-9, select preset 10 before starting autoprogramming: only the presets 10 up to 30 will be programmed now.

- Press AUTOPROGRAM for more than 1 second and then release

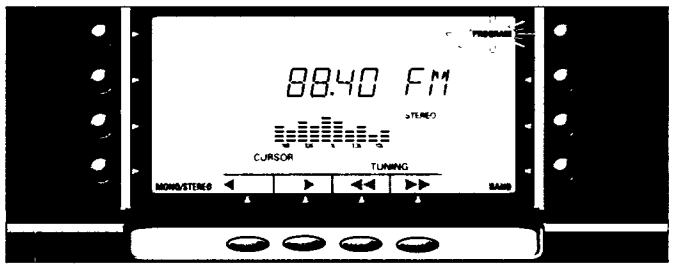


AUTOPROGRAM starts flashing on the display. When a radio station is found, its frequency and the preset number are displayed for two seconds. Scanning is finished when the the preset number at which AUTOPROGRAM was started, is displayed again.

- Press ■ or press AUTOPROGRAM again if you want to interrupt the automatic programming. The preset number at which AUTOPROGRAM was started will be selected.

Manual programming of preset radio stations

- Press PROGRAM to enter the programming mode.



PROGRAM starts flashing on the display.

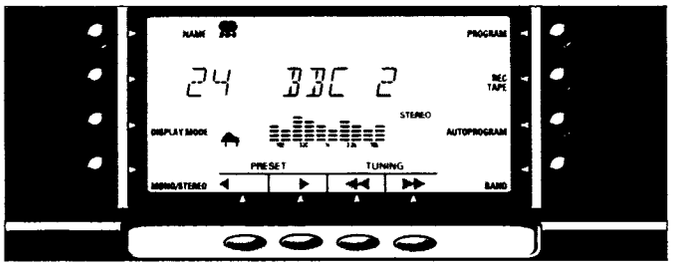
- Select the wave band by pressing BAND.
- Tune to the frequency of the radio station to be stored using TUNING ◀◀ ▶▶. (as described under TUNING).
- A stereo FM radio station can be stored in mono by pressing MONO/-STEREO.
- Select the desired preset number for the radio station using PRESET ◀ ▶.
- Press PROGRAM again.
  The band and frequency are stored under the selected preset number and you leave the programming mode.
- Repeat this procedure to store other frequencies and presets in the memory.
- You can clear a preset number by storing another frequency in its place.

Note: When a new frequency is stored, the radio station name belonging to the old frequency is cleared.

10. TUNER

Selecting a preset radio station

There are several options to select a preset radio station:

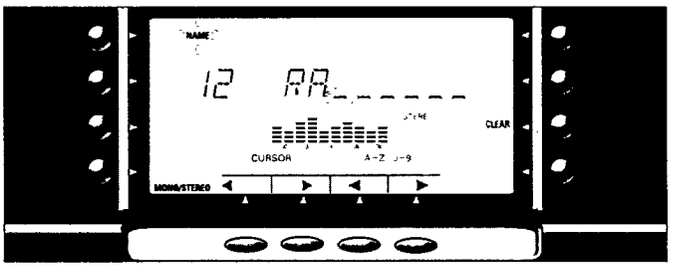


- On the tuner, press PRESET ◀ ▶ until the desired preset radio station appears on the display.
- On the remote control, press ⏮ or ⏭ until the desired preset radio station appears on the display.
- On the remote control, press the digit numbers to form the desired preset number. Presets consisting of two figures must be selected **within 2 seconds**, otherwise only the first number will be selected.

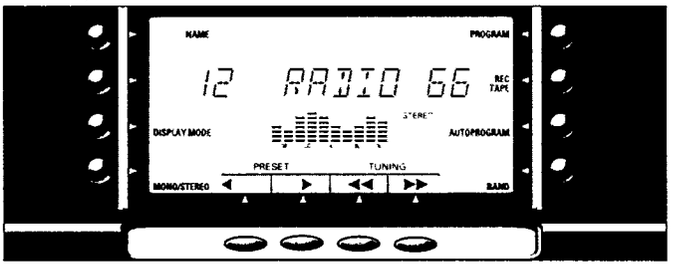
PROGRAMMING A STATION NAME

You can assign a name of 8 characters to the preset radio stations 1-15.
It is not possible to assign a station name to the presets 16-30.
You cannot change the name of an RDS radio station. If you try to do so, the message RDS NAME will appear.

- First choose a preset radio station (1-15).
- Press NAME to enter the name programming mode.
  On the display, NAME starts flashing. If a name has already been stored, this name will then be displayed.
  A flashing cursor is located in the leftmost position.
- Press CURSOR ◀ ▶ to move the cursor to a next or previous position.
- Press A–Z / 0–9 ◀◀ ▶▶ until the desired character is displayed at the cursor position.



- If the station name is correct, press NAME to store the name in the memory.



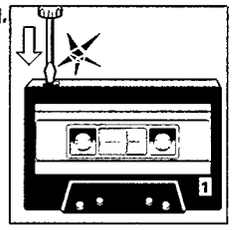
Notes:

– You can erase a station name by pressing CLEAR in the NAME programming mode. You then leave the NAME programming mode.
– If the NAME programming mode is selected for more than 1.5 minutes without pressing CURSOR ◀ ▶ or A–Z / 0–9 ◀◀ ▶▶, the last name will be recalled again and the NAME programming mode will be left without storing any changes.

English

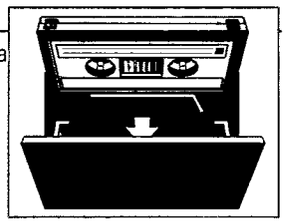
COMPACT CASSETTES

- At the very beginning and end of the tape, no recording will take place during the 7 seconds when the leader tape passes the recorder heads.
- To prevent the accidental erasure of a recording, keep the cassette side to be safeguarded in front of you and break out the left tab. Now, recording on this side is no longer possible. To render this safeguard ineffective, cover the aperture with a piece of adhesive tape.
- Do not expose the cassettes to rain, moisture, sand, or to excessive heat e.g. from heating equipment or in motor cars parked in the sun.



AUTOMATIC TAPE SELECTION

The deck will always detect the presence of a cassette in the cassette holder and will automatically select the tape type (NORMAL or CrO_2) as soon as the cassette holder is closed.



DOLBY NOISE REDUCTION

– Dolby B or C Noise Reduction is switched on and off by pressing the DOLBY NR display button until the required indication appears:
  – DOLBY NR **B** for Dolby B Noise Reduction;
  – DOLBY NR **C** for Dolby C Noise Reduction;
  – If DOLBY NR disappears completely, it is switched off.

  Noise reduction is approximately a factor 3 with Dolby B NR and a factor 10 with Dolby C NR.

1x	DOLBY NR B
2x	DOLBY NR C
3x	

  A cassette recorded with Dolby Noise Reduction must also be played back in the Dolby NR mode. If you forget to adjust the DOLBY NR setting, the treble may be reproduced too strongly or too faintly.
– When dubbing (copying from TAPE 1 to TAPE 2), an original cassette recorded with Dolby NR automatically produces a copy with Dolby NR.

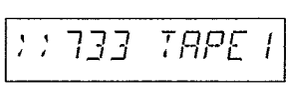
Dolby noise reduction is manufactured under license from Dolby Laboratories Licensing Corporation. DOLBY and the double-D symbol ⧈ are trademarks of Dolby Laboratories Licensing Corporation.

FAST WINDING

The tape can be fast wound or rewound in two ways:

From the STOP position

- To start fast winding, press shortly ◀◀ or ▶▶. fast winding is stopped when the end of the tape is reached, or when ■ is pressed.

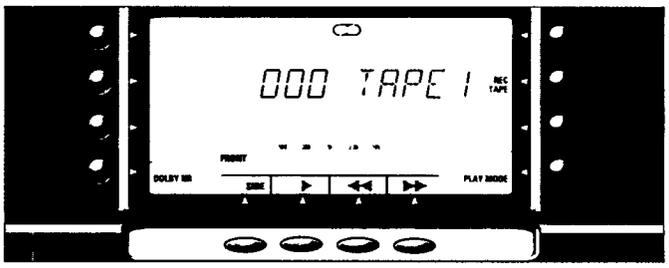


During cassette playback

- For fast winding, keep ◀◀ or ▶▶pressed: when releasing the button, fast winding will stop and the cassette is played in the normal way again.

CASSETTE PLAYBACK - on tape 1 or 2

- Select TAPE 1 or TAPE 2 using the SOURCE SELECT button or the remote control.
  The source TAPE 1 or TAPE 2 appears on the display.



- Press the appropriate OPEN ▲ button to open the cassette holder
- Insert a recorded cassette with the open side facing downwards.
- Close the cassette holder.
- Press PLAY MODE until the desired indicator lights up:
  - **no reverse,** to play one cassette side. At the end of the first cassette side, the tape stops.
  - **single reverse,** to play both cassette sides once At the end of the first cassette side, the tape direction is reversed and the recorder stops at the end of the second cassette side.
  - **continuous reverse** for non-stop playback. The recorder reverses the tape direction (up to 10 times) whenever reaching the end of the cassette. To stop, press ■.
- Select the tape direction to start with by pressing SIDE. The word FRONT or BACK shows which side of the cassette is being played.
- Check if the cassette is recorded with or without Dolby Noise Reduction and press DOLBY NR until the required indication appears, see DOLBY NOISE REDUCTION.
- Press ▶ to start playback.

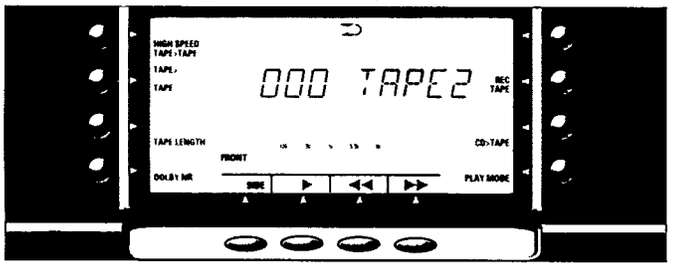
- Adjust the volume with VOLUME.
- To select an equalizer preset, press SOUND PRESETS once and select the required SOUND PRESET using the display buttons ◀ ▶. To leave the SOUND PRESET mode, press SOUND PRESET again.
- Press ANALYZER to switch the spectrum analyzer on or off.
- To obtain a spatial sound effect (only possible with stereo signals), press SURROUND. The SURROUND symbol appears.
- To enhance the bass tones (volume-position-dependent), press DBB. The word DYNAMIC BASS BOOST appears.
- During playback you can reverse at any moment the tape direction by pressing SIDE. The word FRONT or BACK shows which cassette side is being played and the tape counter is set to 000.
- Press ■ to stop playback.

PREPARING TAPE 2 FOR RECORDING

Notes:

1. Recording is only possible on TAPE 2.
2. When going to STANDBY during recording or dubbing, recording will stop.

- Select TAPE 2 using the SOURCE SELECT button or the remote control. The source TAPE 2 appears on the display.



- Press the TAPE 2 OPEN ▲ button to open the cassette holder.
- Load the cassette to be recorded into TAPE 2. Ensure that the cassette tabs are not broken out.
- Close the cassette holder.
- Press PLAY MODE until the desired indicator lights up:
  - **no reverse,** to record one cassette side. At the end of the first cassette side, the tape stops.
  - **single reverse,** to record both cassette sides. At the end of the first cassette side, the tape direction is reversed and the recorder stops at the end of the second cassette side.
- Select the tape direction to start with by pressing SIDE. The word FRONT or BACK shows which side of the cassette will be recorded.
- If desired, wind or rewind the tape to the position you want to start recording.
- Press DOLBY NR until the required indication appears, see DOLBY NOISE REDUCTION.
- To select the sound source, see the next chapters.

RECORDING

- Prepare the TAPE 2 deck for recording, see above.

Copying a cassette or a CD

- When copying a complete cassette, select the sound source TAPE 2 and read chapter TAPE > TAPE DUBBING;
- When copying a complete CD or a CD program, select the sound source TAPE 2 and read chapter CD > TAPE RECORDING;

Starting a recording using the REC TAPE button

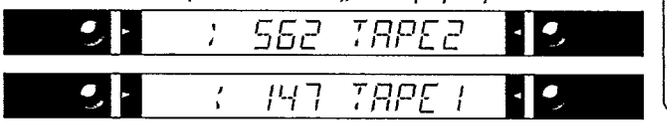
- Select the sound source to be recorded.
- Start recording by pressing REC TAPE.
  During recording, TAPE RECORDING appears on the display.
  If you press REC TAPE from the TAPE 2 position, TAPE 2 will erase the cassette and record a silence.
  If you press REC TAPE from the TAPE 1 position, TAPE 1 will be copied to TAPE 2.
- Press ■ to stop recording. The system returns to the recorded sound source.

TAPE > TAPE DUBBING (copying from TAPE 1 to TAPE 2)

You can duplicate a recorded cassette by simultaneously playing the recorded cassette in TAPE 1 and making a recording of it in TAPE 2 using the dubbing function. Dubbing can be done at normal or high speed.

- Select TAPE 2 using the SOURCE SELECT button or the remote control. The source TAPE 2 appears on the display.
- Prepare the TAPE 2 deck for recording.
- Load the recorded cassette into TAPE 1 and close the cassette holder.
- If necessary, rewind both tapes to the beginning by selecting TAPE 1 or TAPE 2 and pressing ◀◀. After that, return to TAPE 2.
- Select the desired dubbing mode using the display buttons:
  - Press TAPE > TAPE to start copying at the normal speed. During copying, you will hear TAPE 1.
  - Press HIGH SPEED TAPE > TAPE to start high-speed copying. During high-speed copying, the sound cannot be heard.

Both decks start running and RECORDING appears. Depending on the chosen sound source (TAPE 1 or TAPE 2), the display may show:



Recording will stop when one or both sides of the TAPE 2 cassette are full (depending on the chosen PLAY MODE).

- Press ■ to stop the dubbing at an earlier stage.

CD > TAPE RECORDING (copying a CD to TAPE 2)

CD > TAPE recording

Using the CD > TAPE recording function, you can make a straight recording from a CD. If you programmed a selection of CD-tracks, only the selected tracks will be recorded.
At the end of the tape, recording is interrupted somewhere within the running track, the tape direction is reversed (FRONT/BACK) and the remaining CD tracks are recorded on the second cassette side, starting with the beginning of the interrupted track.

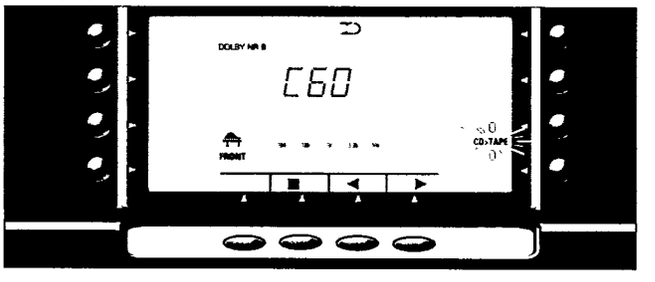
TAPE LENGTH - Calculated CD > TAPE recording

To prevent that at the end of the tape the recording is interrupted somewhere within a track, you can use the TAPE LENGTH function. Now, you can enter the playing time of the cassette and the system calculates, how many tracks will fit on each cassette side. When the last complete track is recorded on one cassette side, the CD player pauses, TAPE 2 records a silence until the end of the tape, reverses the tape direction (FRONT/BACK) and continues recording of the remaining tracks.

Recording procedure

- Select TAPE 2 using the SOURCE SELECT button or the remote control. The source TAPE 2 appears on the display.
- Prepare the TAPE 2 deck for recording.

1. Press CD > TAPE to start a straight copy of the CD or CD-program; RECORDING appears.
2. Press TAPE LENGTH for a calculated copy of the CDor CD-program: The display shows C60 (2x30 min. tape length) and CD>TAPE starts flashing on the display.



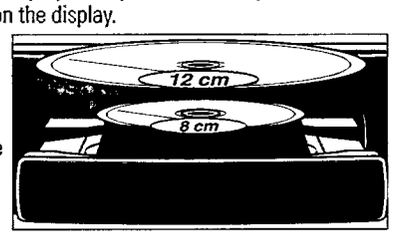
Press ◀ or ▶ to select the appropiate tape length (C60, C90, C100, C120, C30 or C46). Press TAPE LENGTH when the correct tape length is shown. The display shows A TIME and B TIME, indicating the calculated recording time for the front (A) and back (B) cassette side.After that, recording will start automatically and RECORDING appears.
When recording starts, the following happens:
The CD player returns to the beginning of the CD (or CD program) and enters the pause mode.
TAPE 2 starts recording and after a 7-second delay the CD will start. This is to ensure that the recording does not start until after the leader tape.
Recording will stop when one or both sides of the cassette are full (depending on the chosen PLAY MODE) or when the CD player reaches the end of the CD or the end of the CD program.

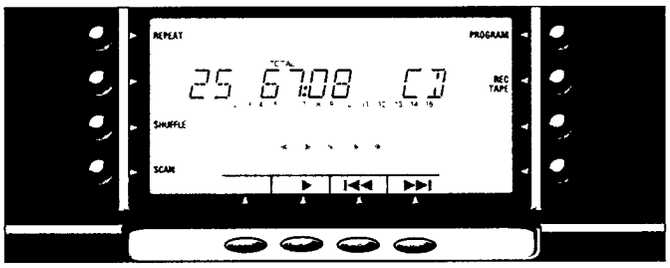
- Press ■ to stop the dubbing at an earlier stage.

English

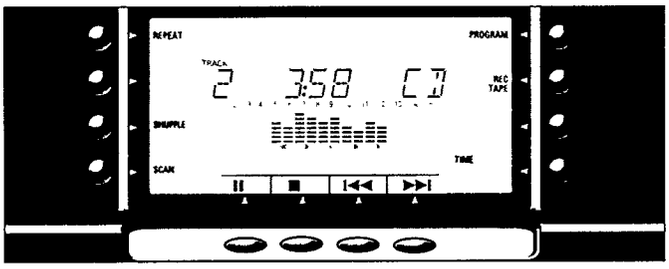
GENERAL PLAYBACK OF A CD

- Select CD using the SOURCE SELECT button or the remote control. The source CD appears on the display.
- Press OPEN/CLOSE ▲ on the CD player to open the CD compartment. The message OPEN appears on the display.
- Insert a CD, **printed side facing up**.
- Press OPEN/CLOSE to close the compartment (or push briefly against the front of the CD tray).
  The message CLOSING appears on the display, followed by READING for about 2 seconds; the number of tracks and the total playing time of the CD are shown on the display.
  The music calendar 1 ... 15+ shows how many tracks are on the CD; when more than 15 tracks are on the CD, 15+ appears





- Press ▶ to start playback. If still open, the CD tray closes as well. The display shows the track being played under TRACK. Its elapsed playing time is shown.
  When a track has been played, its number disappears from the music calendar.



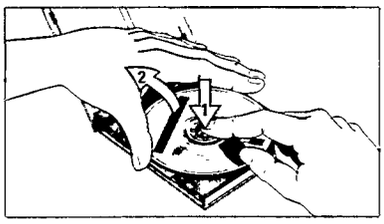
- Using the display button TIME, the display shows either the elapsed time of the track, or the remaining time of the CD (or CD-program)
- Adjust the volume with VOLUME.
- To select an equalizer preset, press SOUND PRESETS once and select the required SOUND PRESET using the display buttons ◀ ▶. To leave the SOUND PRESET mode, press SOUND PRESET again.
- Press ANALYZER to switch the spectrum analyzer on or off.
- To obtain a spatial sound effect (only possible with stereo signals), press SURROUND. The SURROUND symbol appears.
- To enhance the bass tones (volume-position-dependent), press DBB. The word DYNAMIC BASS BOOST appears.
- By pressing ⏮ or ⏭, you can jump to a previous or next track.
- You can interrupt playback by pressing ⏸; PAUSE then lights up on the display. Press ▶ to continue playback.
- To stop playback, press ■ or OPEN/CLOSE ▲.
  After the last track, playback will stop automatically.

REC TAPE

- As soon as you press REC TAPE, the actual CD-sound will be recorded on TAPE 2, provided a cassette suitable for recording is loaded. If the CD was in the STOP-position, it will start automatically.
- To stop recording, press ■.

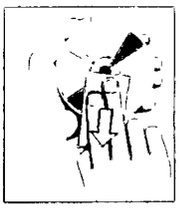
CD HANDLING

- Use only Digital Audio CDs. 8 cm CDs can be played as well
- To take the CD out of its box easily, press the centre spindle while lifting the CD.



COMPACT disc DIGITAL AUDIO

- Never write on a CD or attach any sticker to the CD.
- Always hold the CD at the edge and always store it in its box after use, label facing up.
- To remove dust and dirt, breathe on the CD and wipe it with a soft, lint-free cloth in a straight line from the centre towards the edge. Cleaning agents may damage the CD!
- Do not expose the CD to rain, moisture, sand, or to excessive heat e.g. from heating equipment or in motor cars parked in the sun.



ELAPSED OR REMAINING PLAYING TIME

During play, the display normally shows the elapsed playing time of the track currently playing.

- Press TIME when you want to know the remaining playing time of the entire CD or CD program. The display shows REM
- Press TIME again when you want to know the remaining playing time of the entire CD or CD program. The display shows TOTAL REM.
- Press TIME again to return to the elapsed playing time of the track.

SELECTING ANOTHER TRACK

There are three options to select a track during playback or before starting playback:

On the remote control using the number buttons 0-9

- Select the desired track by pressing the corresponding number button(s) Track numbers consisting of two figures must be selected **within 2 seconds**, otherwise only the first number will be selected.

Using ⏮ and ⏭ (or on the remote control ◀| or |▶)

By pressing ***briefly*** the ⏭ or ⏮ button, you can jump to a next or previous track, or you can select a track before starting playback.

a. During PLAY

⏭ - *go to the next track*
You can jump to the next track by pressing ⏭ once.
If you want to skip more than one track, press ⏭ more than once until the display shows the desired track number.
⏮ - *go to the previous track*
If you want to repeat the running track from the beginning, press PREVIOUS ⏮ once.
If you want to repeat one of the previous tracks, press ⏮ more than once until the display shows the required track number.

b. In position STOP

In position STOP with a CD inserted you can select the desired track using ⏮ or ⏭ until the display shows the required track number Press ▶ to start playback.

SEARCH FORWARD ⏭ / BACKWARD ⏮ DURING PLAY

You can search for a particular passage within a track. The CD is played partly and at high speed, however, the sound is still recognizable.

- ***During playback, keep*** the ⏭ or ⏮ button ***pressed.***
- Release the button as soon as you recognize the required passage: the CD will be played in the normal way from this passage.

SHUFFLE - PLAY IN RANDOM ORDER

SHUFFLE plays all tracks of the CD or the CD program in a random order.

- From the PLAY- or STOP-position, press SHUFFLE.
  The message SHUFFLE appears and an at random selected track is played.
- If you press ⏮ or ⏭, an already played track is repeated (PREVIOUS) or one of the NEXT tracks (at random) is played.
- To leave the SHUFFLE-mode, press SHUFFLE again to return to normal play.
- To stop playback, press ■.

SCAN - PLAY THE FIRST 10 SECONDS OF EACH TRACK

When the scanning function is activated, it plays the first 10 seconds of each track of the CD or the CD program.

- Press SCAN before or during play to start the scanning.
  The display shows the message SCAN before each track, followed by a countdown of the first 10 seconds.
- To leave the SCAN mode, press SCAN again and you will hear the playing track completely.
- To stop playback, press ■.

REPEAT

It is possible to repeat the entire CD or CD-program or to repeat one particular track.

1x	REPEAT ALL
2x	REPEAT
3x	

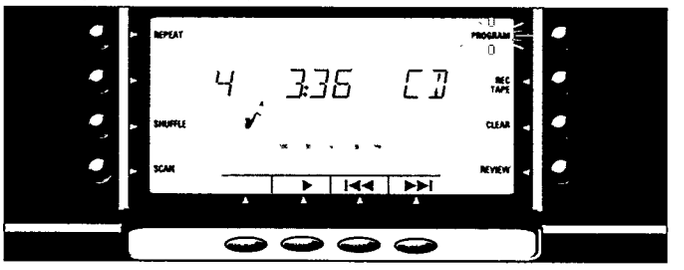
- Press REPEAT once or more than once until the desired option is displayed:
  - **REPEAT ALL** - to repeat the entire CD or CD-program continuously. When being in the stop mode, press ▶ to start playback.
  - **REPEAT** - to repeat the displayed track continuously. When being in the stop mode, select the track and press ▶ to start playback.
  - **no display indication** - REPEAT is switched off.
- To stop playback, press ■.

CD PROGRAM - PROGRAMMING TRACK NUMBERS

You may store at most 25 tracks in the memory in the desired sequence. You may store any track more than once. When playing, you will only hear the stored tracks in the selected sequence.
The display will show the message FULL if you exceed the maximum of 25 tracks.

Manual selecting

- Load the CD, but do not start playback yet.
- Select the desired track using the buttons ⏮ and ⏭ (or using the remote control) until the display shows the required track number.
- Store this track by pressing PROGRAM. The word PROGRAM appears in the display and the display button PROGRAM flashes for 2 seconds.



- Select and store in this way all desired tracks.
  The music calendar shows which numbers have been stored.

Storing during PLAY, SCAN or SHUFFLE

- During normal PLAY, SCAN or during SHUFFLE you may store the running track by pressing PROGRAM once.
  As long as PROGRAM flashes and in postion STOP the display shows the total time of all programmed tracks.
  The music calendar shows which numbers have been stored.

Checking the program

- Press REVIEW: the display will show in sequence all programmed track numbers.

Erasing a track or an entire program

- To erase ***one track*** from a program, select the track to be erased using the buttons ⏮ and ⏭. Then press CLEAR ***once***; the display shows for 2 seconds the track number and the message CLEAR.
- To erase an entire CD program, press CLEAR once or twice until the message CLEAR ALL YES/NO appears.
  Press YES to confirm; the message PROGRAM CLEARED appears.
  Press NO to cancel.

How to play the stored selection

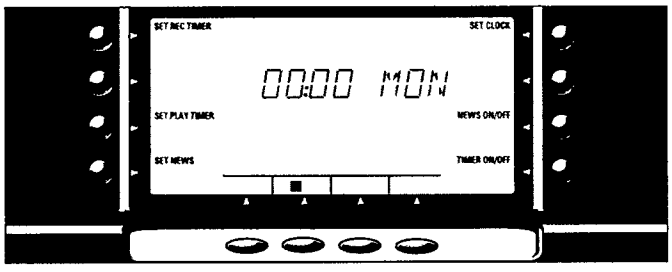
- To play your selection, the CD-player should be in position STOP; then press ▶.
- Playing the selection in the SHUFFLE, SCAN and REPEAT mode is also possible.

English

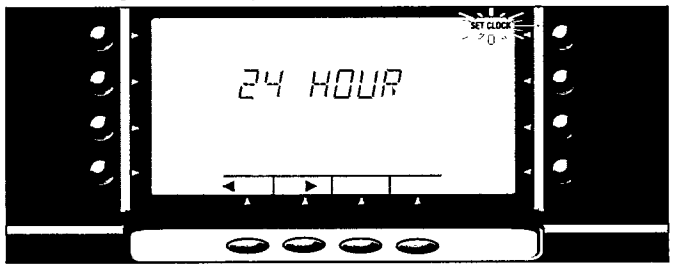
SET CLOCK - Setting the time-of-day

The clock shows the day of the week and the time. It can be set to a 12-hour or 24-hour clock format. In the standby mode, day and time are displayed, but the display illumination is switched off.
The clock display will flash if the time-of-day has not been set, or if the power supply was interrupted for longer than 10 minutes.

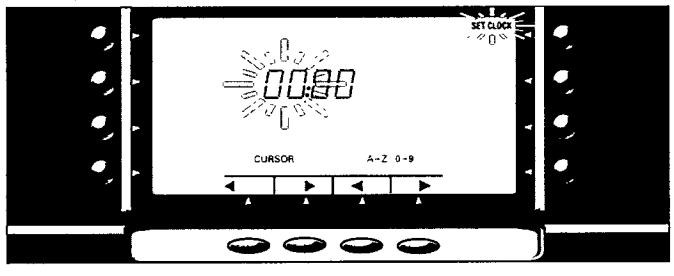
- Press the TIMER button to enter the TIMER mode.
  The timer display appears.



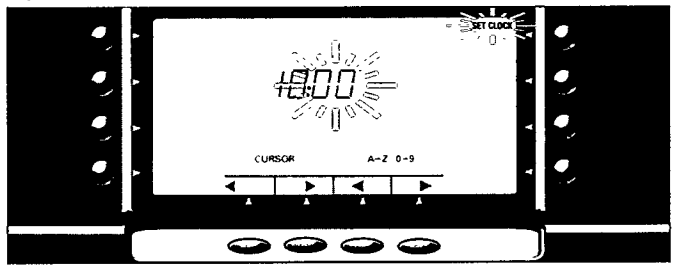
- Press SET CLOCK.
  The day appears.
- Press CURSOR ◄ ► until the correct day appears.
- Press SET CLOCK to store the day.
  The message 24 HOURS appears.



- Press CURSOR ◄ ► to select the 12-hour or 24-hour clock.
- Press SET CLOCK to store the clock format.
  The hours and minutes appear, the hours flash.
  When the 12 hour clock is selected, AM (before noon) or PM (afternoon) will appear.



- Press CURSOR ◄ ► to select the hours or the minutes. The chosen position will flash.



- Using A–Z / 0–9 ◄ ►, adjust the hours and the minutes.
  When pressing the buttons shortly, the figures will change step-by-step.
  By pressing longer, the running speed will increase after a few seconds.
  When using the 12 hour clock, watch the AM/PM indication.
- Press SET CLOCK to store the settings and to leave the clock setting mode.
  The timer display appears again. The clock starts running.
- To leave the timer display, press TIMER again or select a sound source or STANDBY.

SET REC TIMER - Radio recording start and stop time

- Load the cassette to be recorded into TAPE 2. Ensure that the cassette tabs are not broken out.
- Press the TIMER button to enter the TIMER mode.
  The timer display appears.
- Press SET REC TIMER.
  SET REC TIMER flashes and the radio presets appear.
- Press PRESET ◄ ► to select the desired radio station.
- Press SET REC TIMER to store the radio preset.
  The message ON and a time appears, the hours flash. The ***recording start time*** must be entered.
- Press CURSOR ◄ ► to select the hours or the minutes. The chosen position will flash.
- Using A–Z / 0–9 ◄ ►, adjust the hours and the minutes.
- Press SET REC TIMER to store the start time.
  The message OFF and a time appears, the hours flash. The ***recording stop time*** must be entered.
- Using CURSOR ◄ ► and A–Z / 0–9 ◄ ►, adjust the hours and minutes
- Press SET REC TIMER to store the settings. The above display appears again. The timer is activated and the word TIMER appears in the display
- To switch off or re-activate a timer function, press TIMER ON/OFF several times until the required indication appears:
  The message PLAY (playback) and the programmed start time for activating the PLAY TIMER;
  The message REC (recording) and the programmed start time for activating the REC TIMER;
  OFF for switching the timer off.
  After approx. 1.5 second, the chosen function is activated
- To leave the timer display, press ■ or press TIMER again.

SET PLAY TIMER - Playback start time

Several options are possible:
– the tuner wakes up and is tuned to a selected preset station;
– the CD player wakes up and starts playing a selected track;
– a cassette deck wakes up and starts playing;

- Press the TIMER button to enter the TIMER mode.
  The timer display appears.
- Press SET PLAY TIMER.
  SET PLAY TIMER flashes and the selected SOURCE appears.
- Press ◄ ► to select the desired sound source. Press SET PLAY TIMER to store the selected source.
  – When TUNER is selected, press PRESET ◄ ► to select the desired radio station.
  – When CD is selected, press TRACK ◄ ► to select the desired CD track.
- Press SET PLAY TIMER to store the selected radio preset or CD track
  ON and a time appears, the hours flash. The ***start time*** must be entered
- Press CURSOR ◄ ► to select the hours or the minutes. The chosen position will flash.
- Using A–Z / 0–9 ◄ ►, adjust the hours and the minutes.
- Press SET PLAY TIMER to store the settings. The timer display appears again. The timer is activated and the word TIMER appears in the display.
- To switch off or re-activate a timer function, press TIMER ON/OFF several times until the required indication appears:
  The message PLAY (playback) and the programmed start time for activating the PLAY TIMER;
  The message REC (recording) and the programmed start time for activating the REC TIMER;
  The message OFF for switching the timer off.
- To leave the timer display, press ■ or press TIMER again.

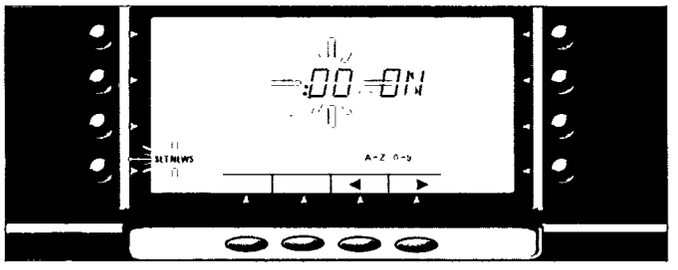
13. CLOCK / TIMER

SET NEWS

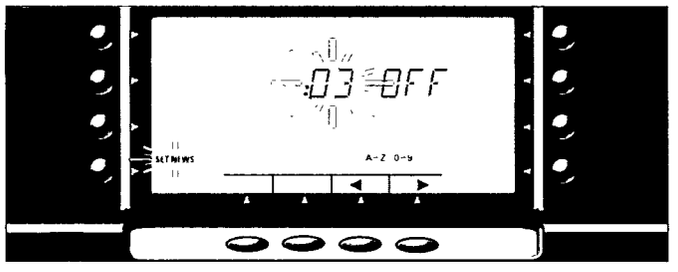
The news function will interrupt any playing source and switch to a programmed radio station in order to listen to the news. You have to programme the desired radio news station and the start/stop time (only the minutes).

Example:
You programmed a radio news station, a start time of :00 minutes, a stop time of :03 minutes and you activated the news timer.
No matter if you are listening to a CD, a cassette or another radio station, the system will switch the next hour at :00 minutes to the radio news station for 3 minutes and, after that, return to the previous sound source

- Press the TIMER button to enter the TIMER mode.
  The timer display appears.
- Press SET NEWS.
  SET NEWS flashes and the radio presets appear.
  Press PRESET ◄ ► to select the desired radio news station.
- Press SET NEWS
  ON appears and the minutes flash. The ***start minute*** must be entered.



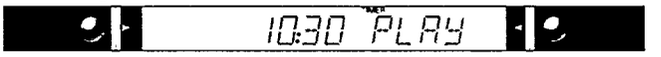
- Using A–Z / 0–9 ◄ ►, adjust the the starting minute.
- Press SET NEWS.
  The message OFF appears and the minutes flash. The ***stop minute*** must be entered.



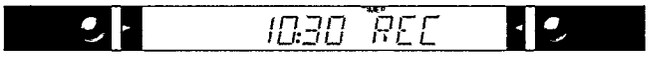
- Using A–Z / 0–9 ◄ ►, adjust the stop minute.
- Press SET NEWS to store the settings. The timer display appears again.
  The news timer is activated and the word NEWS appears in the display.
- To switch off or re-activate the NEWS function, press NEWS ON/OFF until the required indication appears:
  The message NEWS and the programmed start time for activating the NEWS timer;
  The message OFF for switching the NEWS timer off.
  After approx. 1.5 second, the chosen function is activated.
- To leave the timer display, press ■ or press TIMER again.

TIMER ON/OFF

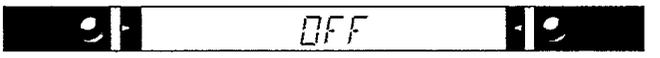
- Press the TIMER button to enter the TIMER mode.
  The timer display appears.
- To switch off or re-activate a timer function, press TIMER ON/OFF several times until the required indication appears:
  – The message PLAY (playback) and the programmed start time for activating the PLAY TIMER;



  – The message REC (recording) and the programmed start time for activating the REC TIMER;



  – The message OFF for switching the timer off.



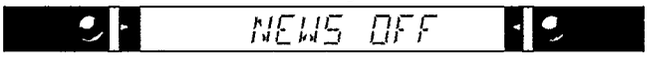
  After approx. 1.5 second, the chosen function is activated.
- To leave the timer display, press ■ or press TIMER again.

Note: When the system has been switched on by a timer function and you press any button, the timer function is cancelled (the system will not be switched off by the timer).

NEWS ON/OFF

- Press the TIMER button to enter the TIMER mode.
  The timer display appears.
- To switch off or re-activate the NEWS function, press NEWS ON/OFF until the required indication appears:
  – The message NEWS and the programmed start time for activating the NEWS timer;

  – The message NEWS OFF for switching the NEWS timer off.



- To leave the timer display, press ■ or press TIMER again.

Note: When the system has been switched on by a timer function and you press any button, the timer function is cancelled (the system will not be switched off by the timer).

14. MAINTENANCE

English

SYSTEM MAINTENANCE

- The mechanical parts of the CD player and the cassette decks contain self-lubricating bearings and must not be oiled or lubricated.
- A chamois leather slightly moistened with water is sufficient for cleaning the system.
- Do not use cleaning agents containing alcohol, spirits, ammonia or abrasives.
- Do not leave the system for any length of time in direct sunlight or other places where high temperatures can occur, such as in the vicinity of heating apparatus.
- Do not expose the system to humidity or rain.

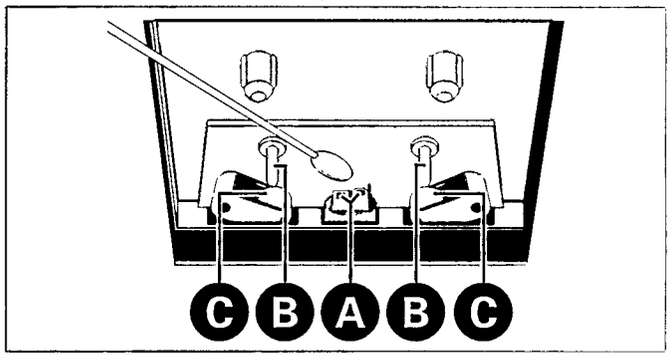
CD-PLAYER MAINTENANCE

- The lens may cloud over if the CD player is moved from cold to warm surroundings. The CD player will not start. Do not clean the lens, but give the player some time to acclimatise.

CASSETTE DECK MAINTENANCE

To ensure a good recording and playback quality, clean the indicated parts ⒶⒷⒸ after every 50 hours of operation or, on average, once a month.

- Use a cotton bud slightly moistened with alcohol or a special head cleaning fluid.
- Clean the rubber pressure rollers Ⓒ, the capstans Ⓑ and the heads Ⓐ



- Cleaning of the heads Ⓐ can also be done by playing a cleaning cassette through once.

15. TROUBLESHOOTING

If a fault occurs, first check the points listed below before taking the system for repair.
If you are unable to remedy a problem by following these hints, consult your dealer or service centre.
If any repair is needed, always deliver the complete system (not only one unit) at your dealer or service centre.

WARNING
Under no circumstances should you try to repair the system units yourself, as this would invalidate the guarantee

PROBLEM	POSSIBLE CAUSE	REMEDY
No power	– Mains lead is not connected securely	• Connect the mains lead securely
	– Flat cable is not (or wrongly) connected	• Connect the flat cables securely
No sound	– VOLUME is not turned up	• Turn up the VOLUME
	– Headphones are connected	• Disconnect headphones
	– Speakers are not (or wrongly) connected	• Connect the speakers securely
Bad sound	– Unsuited speakers are used	• Use recommended speakers, impedance 6 Ohms
	– Badly matching equalizer setting for the given type of music	• Choose a matching equalizer setting for the given type of music
No sound on left or right side	– Speaker wrongly connected	• Connect speaker properly
Reversed left and right sound	– Speakers are wrongly connected	• Connect speakers properly, L to left, R to right
System does not react to operation of any button	– Electrostatic discharge	• Switch off the units and disconnect the mains plugs. Connect again after a few seconds.
Severe radio hum or noise	– FM aerial not connected securely	• Connect FM aerial properly
	– Loose connections	• Restore connections
	– Tuner too close to TV, VCR or computer	• Increase the distance
	– FM aerial cable too near to flat cable	• Move FM aerial cable away from flat cable
The CD skips tracks	– CD is damaged or dirty	• Replace or clean the CD
Bad sound quality from cassette	– Dust and dirt on the heads, capstans or pressure rollers	• Clean the heads, capstans and pressure rollers, see chapter 'Maintenance'
Remote control does not operate properly	– Distance to the system is too large	• Reduce the distance
	– Remote control batteries incorrectly inserted	• Insert batteries properly
	– Remote control batteries exhausted	• Replace batteries
	– Wrong sound source selected	• Select correct sound source.

16. DISPLAY MESSAGES

GENERAL

MAGIC - NEW MINI SYSTEM - EVOLUTIONARY DESIGN	Demonstration mode is active	Leave this way or undo, see 3 ADDITIONAL FEATURES
TRADE ON or TRADE OFF	Demonstration mode activated or not	Leave this way or undo, see 3 ADDITIONAL FEATURES
SELF PROTECTION ACTIVE	Amplifier overheated, FUZZY LOGIC CONTROL active	Leave this way, **DO NOT TURN UP THE VOLUME**
PROTECTIVE	Amplifier overheated and MUTE activated	System inoperative until it has cooled off
NO CCD	CCD unit (CD/TAPE) is not connected	Connect CCD-unit using the flat cable
SELECT SOURCE	Desired source is unknown	Select the source using SOURCE SELECT
STOP TAPE 1 or STOP TAPE 2	Cannot enter the function from this mode	Press ■ to stop and repeat the command
GO TO STOP	Cannot enter the function from this mode	Press ■ to stop and repeat the command

SYSTEM SET-UP

AUTOPLAY (yes/no)	System set-up menu	Press YES or NO or quit using ■, see 8 SYSTEM SET-UP
SOURCES (yes/no)	System set-up menu to select external sources	Press YES or NO or quit using ■, see 8 SYSTEM SET-UP
PHONO DCC CDI TV VCR AUX	Possible sources connected to PHONO and AUX.PLAY.	To select names, see SYSTEM SET-UP

SOUNDS PRESETS

OPTIMAL JAZZ POP CLASSIC ROCK VOCAL FLAT PRESET 1-5	The indicated equalizer setting is selected	Select with ◄ ►, confirm with SOUND PRESETS
OPTIMAL or NO OPTIM	OPTIMAL equalizer setting is available or not	Leave this way or undo, see 3 ADDITIONAL FEATURES

TIMER DISPLAY MESSAGES

MON TUE WED THU FRI SAT SUN	Monday to Sunday, flashes during SET CLOCK	Select with CURSOR ◄ ►, confirm with SET CLOCK
24 HOUR or 12 HOUR	Clock format	Select with CURSOR ◄ ►, confirm with SET CLOCK
TIMER CANCELLED	Recording is active	Leave this way or stop recording using ■
PLAY + time (flashing)	PLAY TIMER + start time selected	Leave this way or press TIMER ON/OFF
REC + time (flashing)	REC TIMER + start time selected	Leave this way or press TIMER ON/OFF
OFF	PLAY and REC TIMER switched off	Leave this way or press TIMER ON/OFF
NEWS (flashing) + minutes	NEWS TIMER + start time selected	Leave this way or press NEWS ON/OFF
NEWS OFF	NEWS TIMER switched off	Leave this way or press NEWS ON/OFF

CD DISPLAY MESSAGES

NO DISC	No AUDIO CD inserted	Insert an AUDIO CD
	CD inserted upside down	Insert CD with label upwards
	Laser lens is steamed up	Wait until lens has acclimatized
	CD is damaged or dirty	Replace or clean the CD
OPEN or CLOSE	During opening and closing the CD tray	No action
READING	CD player is reading the contents list of the CD	No action
WRONG TRACK	Selected track is not present on this CD	Select a correct track number
SCAN	SCAN mode is activated	Leave this way or press SCAN again
SHUFFLE	SHUFFLE mode is activated	Leave this way or press SHUFFLE again
REPEAT ALL	'Repeat the entire CD or CD-program' is active	Leave this way or press REPEAT again
REPEAT	'Repeat the running track' is active	Leave this way or press REPEAT again
SELECT TRACK	Select the track for programming	Select a track or quit programming
FULL	The memory for programming CD tracks is full	Leave this way or delete some tracks
PROGRAM CLEARED	If the entire CD program has been cleared	No action
track nr + CLEAR	This track number is cleared from the program	No action
CLEAR ALL (yes/no)	Should the CD program be cleared ?	Confirm with YES or cancel with NO

TAPE DISPLAY MESSAGES

NO TAPE	No cassette inserted	Insert a cassette
PROTECT	The cassette is protected against recording	Replace cassette or undo protection
RECORDING	Appears after starting a recording	Leave this way or press ■ to stop TAPE 2
RECORDING STOPPED	Appears after stopping a recording	Continue with any command
Tape counter (last 3 digits)	Runs during TAPE 1 and TAPE 2 playback	No action
REC + tape counter (last 3 digits)	Runs during TAPE > TAPE dubbing	No action
C60, C90, C100, C120, C30, or C46	Cassette playing time for calculated CD > TAPE recording	Select with ◄ ►, confirm with ■

TUNER DISPLAY MESSAGES

MONO	FM mono is selected for this radio station	Leave this way or press MONO/STEREO again
PRESS LONGER	AUTOPROGRAM was pressed too shortly	Keep AUTOPROGRAM pressed longer
SELECT PRESET	A preset radio station needs to be selected	Press PRESET ◄ ► to select a radio station
SELECT PRESET BELOW 16	Station name only possible forpresets 1-16	Select a preset below 16 using PRESET ◄ ►
RDS NAME	You receive a RDS radio station	No action
	You try to change a RDS station name	You cannot change a RDS station name
LW ON or LW OFF	LW wave band is available or not available	Leave this way or undo,see 3 ADDITIONAL FEATURES

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